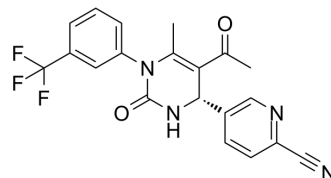


BAY-677

Cat. No.:	HY-111457		
CAS No.:	2117404-84-7		
Molecular Formula:	C ₂₀ H ₁₅ F ₃ N ₄ O ₂		
Molecular Weight:	400.35		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 50 mg/mL (124.89 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.4978 mL	12.4891 mL	24.9781 mL
	5 mM	0.4996 mL	2.4978 mL	4.9956 mL
	10 mM	0.2498 mL	1.2489 mL	2.4978 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

BAY-677 is an inactive control for BAY-678. BAY-678 is an orally bioavailable, highly potent, selective and cell-permeable inhibitor of human neutrophil elastase (HNE), with an IC₅₀ of 20 nM^[1]. BAY-678 is also nominated as a chemical probe to the public via the Structural Genomics Consortium (SGC)^[2].

REFERENCES

[1]. von Nussbaum F, et al. Freezing the Bioactive Conformation to Boost Potency: The Identification of BAY 85-8501, a Selective and Potent Inhibitor of Human Neutrophil Elastase for Pulmonary Diseases. *ChemMedChem*. 2015 Jul;10(7):1163-73..

[2]. von Nussbaum F, et al. Neutrophil elastase inhibitors for the treatment of (cardio)pulmonary diseases: Into clinical testing with pre-adaptive pharmacophores. *Bioorg Med Chem Lett*. 2015 Oct 15;25(20):4370-81.

Caution: Product has not been fully validated for medical applications. For research use only.

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